

STN Columbus

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
 STN AnaVist, now available
 NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
 NEWS 5 AUG 30 CA/Caplus -Increased access to 19th century research documents
 NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
 NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
 NEWS 8 OCT 03 MATHDI removed from STN
 NEWS 9 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added
 to core patent offices
 NEWS 10 OCT 06 STN AnaVist workshops to be held in North America
 NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005
 NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
 of Caplus documents for use in third-party analysis and
 visualization tools
 NEWS 13 OCT 27 Free KWIC format extended in full-text databases
 NEWS 14 OCT 27 DIOGENES content streamlined
 NEWS 15 OCT 27 EPFULL enhanced with additional content

 NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
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 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
 specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:57:51 ON 31 OCT 2005

=> fil reg; e polypyridine/cn

| | | |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 14:58:05 ON 31 OCT 2005

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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 30 OCT 2005 HIGHEST RN 866393-44-4

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DICTIONARY FILE UPDATES: 30 OCT 2005 HIGHEST RN 866393-44-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

| | | |
|-----|-------|--|
| E1 | 1 | POLYPYRENE/CN |
| E2 | 1 | POLYPYRIDAZINE/CN |
| E3 | 1 --> | POLYPYRIDINE/CN |
| E4 | 1 | POLYPYRIDINE DODECYL BROMIDE SALT/CN |
| E5 | 1 | POLYPYRIDINE METHYL IODIDE SALT/CN |
| E6 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN (DROSOPHILA MELANOGASTER GENE PTB)/CN |
| E7 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN (HUMAN WERI-1 CELL GENE PTB)/CN |
| E8 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN (PLASMODIUM FALCIPARUM STRAIN 3D7 GENE MAL6P1.68)/CN |
| E9 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN (RATTUS NORVEGICUS CELL LINE 6-MYOBLAST GENE TBFII)/CN |
| E10 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN 2 (HUMAN CLONE MGC:9393 IMAGE:3872881)/CN |
| E11 | 1 | POLYPYRIMIDINE TRACT BINDING PROTEIN 2 (MOUSE STRAIN FVB/N CLONE MGC:11671 IMAGE:3709255)/CN |
| E12 | 1 | POLYPYRIMIDINE TRACT-BINDING PROTEIN (HUMAN CLONE MGC:8461 IMAGE:2821531)/CN |

=> s e3

L1 1 POLYPYRIDINE/CN

=> d

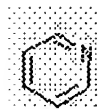
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25013-01-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pyridine, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyridine, polymers (8CI)
OTHER NAMES:
CN Polypyridine

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CN Pyridine polymer
 DR 29729-30-4
 MF (C5 H5 N)x
 CI PMS, COM
 PCT Polyother, Polyother only
 LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, CA, CAPLUS, CEN, CIN, DIOGENES,
 IFICDB, IFIPAT, IFIUDB, MEDLINE, PIRA, PROMT, TOXCENTER, TULSA, USPAT2,
 USPATFULL

CM 1

CRN 110-86-1.
 CMF C5 H5 N



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

220 REFERENCES IN FILE CA (1907 TO DATE)
 37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 221 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil ca

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 6.87 | 7.08 |

FILE 'CA' ENTERED AT 14:58:56 ON 31 OCT 2005
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FILE COVERS 1907 - 27 Oct 2005 VOL 143 ISS 19
 FILE LAST UPDATED: 27 Oct 2005 (20051027/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1 and (hole (3w) block\$4)

4) IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

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For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

```
=> s l1 and (hole (3w) block?)
      220 L1
      155357 HOLE
      539549 BLOCK?
      674 HOLE (3W) BLOCK?
L2      3 L1 AND (HOLE (3W) BLOCK?)
```

```
=> d kwic 1-3
```

L2 ANSWER 1 OF 3 CA COPYRIGHT 2005 ACS on STN

AB . . . between them are adapted for charge semiconduction, wherein the intermediate layer(s) comprise ≥ 1 semiconducting polymer adapted for electron transport and/or hole blocking, and ≥ 1 semiconducting polymer adapted for hole transport and/or electron blocking are described in which the ≥ 1 semiconducting polymer adapted for electron transport and/or hole blocking comprises a polymer selected from a nitrogen- and/or sulfur-contg. polymer which is partially or substantially conjugated. Semiconducting polymers substantially free. .

IT Semiconductor materials

(polymeric; semiconductor polymers for electron transport and/or hole blocking)

IT Polymers, uses

RL: DEV (Device component use); USES (Uses)

(polythiophenes; semiconductor polymers for electron transport and/or hole blocking)

IT Oligodeoxyribonucleotides

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(pyrimidine; semiconductor polymers for electron transport and/or hole blocking in semiconductor devices)

IT Polymerization

(semiconductor polymers for electron transport and/or hole blocking)

IT Diodes

Electroluminescent devices

Photodiodes

Rectifiers

Semiconductor devices

Solar cells

Transistors

(semiconductor polymers for electron transport and/or hole blocking in)

IT Polythiazoles

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(semiconductor polymers for electron transport and/or hole blocking in semiconductor devices)

IT 1332-29-2, Tin oxide 9033-83-4, Polyphenylene 25233-30-1, Polyaniline

50926-11-9, Indium tin oxide 96638-49-2, Polyphenylene vinylene

126213-51-2, Poly(3,4-ethylenedioxythiophene) 138184-36-8, MEH-PPV

RL: DEV (Device component use); USES (Uses)

(semiconductor polymers for electron transport and/or hole blocking in semiconductor devices)

IT 25013-01-8DP, Polypyridine, derivs. 25013-01-8P,

Polypyridine

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(semiconductor polymers for electron transport and/or hole

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blocking in semiconductor devices)

L2 ANSWER 2 OF 3 CA COPYRIGHT 2005 ACS on STN
 AB Multiple polymer layers enable controlled and improved device operation. Bilayers of hole transporting/electron blocking poly(vinyl carbazole) with pyridine-based polymers have bright emission from a new exciplex species formed at their interface. Sym. configured a.c...
 IT 110-86-1D, Pyridine, conjugated polymers contg. dibenzo-22-crown-6 fragments, uses 492-97-7D, 2,2'-Bisthiophene, conjugated polymers contg. dibenzo-22-crown-6 fragments 25013-01-8, Polypyridine 25067-59-8, Poly(vinyl carbazole) 25233-30-1D, Polyaniline, sulfonated 60985-77-5D, Dibenzo-22-crown-6, conjugated polymers with pyridine or dithienylene fragments 164658-06-4, Poly(p-pyridyl vinylene) 177857-37-3 178900-72-6
 RL: DEV (Device component use); USES (Uses)
 (voltage control of poly(vinyl carbazole)/polypyridine deriv. light emitting devices with redox sulfonated polyaniline layer)

L2 ANSWER 3 OF 3 CA COPYRIGHT 2005 ACS on STN
 AB . . . relatively stable metals such as Al or even ITO as electron injecting contacts. Bilayer devices utilizing poly(9-vinyl carbazole) (PVK) as hole transporting/electron blocking polymer were assembled, which show improved efficiency and brightness, due to charge confinement and exciplex emission at the PVK/emitting polymer.
 IT 25013-01-8, Polypyridine 164658-06-4, Poly(p-pyridyl vinylene)
 RL: DEV (Device component use); PRP (Properties); USES (Uses)
 (electron affinity of polypyridines and assembly of light-emitting devices using polypyridines and poly(vinyl carbazole) and polyaniline conjugated polymers)

=> s electrophotog? and polypyridine

65861 ELECTROPHOTOG?

937 POLYPYRIDINE

L3 1 ELECTROPHOTOG? AND POLYPYRIDINE

=> d

L3 ANSWER 1 OF 1 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 111:15310 CA
 TI Toners for color electrostatic development
 IN Tanaka, Koji; Tosaka, Hachiro; Tomita, Masami; Orihara, Motoi; Hagiwara, Tomoe
 PA Ricoh Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 63269165 | A2 | 19881107 | JP 1987-105485 | 19870428 |
| PRAI | JP 1987-105485 | | 19870428 | | |

=> log h

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 15.71 | 22.79 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
|------------|-------|
|------------|-------|

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| | | |
|---------------------|-------|---------|
| CA SUBSCRIBER PRICE | ENTRY | SESSION |
| | -2.04 | -2.04 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:01:44 ON 31 OCT 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CA' AT 15:02:12 ON 31 OCT 2005
FILE 'CA' ENTERED AT 15:02:12 ON 31 OCT 2005
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| | | |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 15.71 | 22.79 |

| | | |
|--|------------|---------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -2.04 | -2.04 |

=>